

EC Type Examination Certificate

This is to certify that:

3M United Kingdom Plc
3M Centre
Bracknell
Berkshire
RG12 8HT
United Kingdom

Holds Certificate Number:

CE 557351

In respect of:

**Respiratory protective devices to EN 12941:1998+A2:2008
Powered filtering devices incorporating a helmet or hood
Models: Range based on the 3M™ Versaflo™ M-306/M-307 Helmets.**

On the basis of our examination, under the requirements of Council Directive 89/686/EEC "Personal Protective Equipment" Article 10, EC Type-Examination

For and on behalf of BSI, a Notified
Body for the above Directive
(Notified Body Number 0086):



Gary Fenton, Global Product Certification Director

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Product Details

Product name:	Headtop based Powered Air Respiratory Protective Systems.		
Product type:	Powered air filtering devices incorporating a Helmet/Visor combination to additionally provide head, eye and face protection.		
Models: (standard industrial products)	3M™ Versaflo™ M-306/M-307 Helmet - 3M™ Jupiter™ systems 3M™ Versaflo™ M-306/M-307 Helmet - 3M™ Versaflo™ TR-302E systems 3M™ Versaflo™ M-306/M-307 Helmet - 3M™ Versaflo™ TR-602E systems.		
Technical Specification:	Harmonized European Standard EN 12941:1998+A2:2008. Harmonized European Standard EN 397:1995. Harmonized European Standard EN 166:2001.		
EN 12941 classifications:	3M™ Jupiter™ systems:	TH2	
	3M™ Versaflo™ TR-302E systems:	TH3	
	3M™ Versaflo™ TR-602E systems:	TH3.	
EN 397 classifications:	Non Mandatory EN 397 Attributes	Marking Symbol	
	Electrical properties	440V a.c.	
	Lateral deformation.	LD	
EN 166 classifications:	Visor	EN 166 Attribute	Marking symbol
	M-925 (uncoated)	Optical class Protection against high speed particles, medium energy impact at extremes of temperature Protection against droplets and splashes of liquids Protection against molten metal and hot solids.	1 BT 3 9
	M-927 (coated)	Optical class Protection against high speed particles, medium energy impact at extremes of temperature. Protection against droplets and splashes of liquids.	1 BT 3

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Product Assessments

The product assessments for the respiratory protection were based on BS EN 12941:1998+A2:2008, the English language version of EN 12941:1998+A2:2008, respiratory protective devices - powered filtering devices incorporating a helmet or hood.

The product assessments for the head protection were based on BS EN 397:1995, the English language version of EN 397:1995, industrial safety helmets, both documents incorporating Amendment No. 1.

The product assessments for the eye and face protection were based on BS EN 166:2002, the English language version of EN 166:2001 - personal eye protection.

Additional independently Certified characteristics of the systems

Intrinsic Safety (IS)

The Jupiter Powered Air Turbo Unit has the option of being configured as an Intrinsically Safe (IS) Unit, consisting of the Turbo Unit, IS Battery Pack, IS Pouch.

This configuration has been assessed by Sira Certification Limited and is referenced on Product Conformity Certificate Sira Ex09Y2202X, assessed as follows:

BS EN 60079-0:2006, Electrical apparatus for explosive gas atmospheres. General requirements.

BS EN 60079-11:2007, Explosive atmospheres. Equipment protection by intrinsic safety "i".

BS EN 61241-1:2004, Electrical apparatus for use in the presence of combustible dust. Protection by enclosures "tD".

Certification code and marking

Ex ib IIB T3 Gb

Ex tb IIIC T55°C Db

Ta= -20°C to +40°C

II 2GD

Note: When assembled for an Intrinsically Safe configuration a BT-20S, BT-20L or BT-30 Breathing Tube must be used.

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Dust and Water Ingress Protection

In Use Configuration

BS EN 60529:1992, Degrees of protection provided by enclosures (IP code).

Powered Air Turbo Unit	Protection Code Description	Code
Jupiter	Dust protected	IP5X
	Protected against spraying water	IPX3
Jupiter with IS pouch	Dust tight	IP6X
	Protected against spraying water	IPX3
TR-302E	Dust protected	IP5X
	Protected against spraying water	IPX3
TR-602E	Dust protected	IP5X
	Protected against spraying water in all directions	IPX4

Decontamination configuration

BS EN 60529:1992, Degrees of protection provided by enclosures (IP code).

Powered Air Turbo Unit	Protection Code Description	Code
TR-602E Turbo fitted with cleaning and storage plugs (no Filter or Battery Pack)	Dust tight	IP6X
	Protected against temporary water immersion	IPX7
TR-602E Battery Packs fitted with cleaning cover	Protected against temporary water immersion	IPX7

Electromagnetic Compatibility (EMC)

The Jupiter, TR-302E and TR-602E Powered Air Turbo Units also comply with the requirements of the Electromagnetic Compatibility Directive 2004/108/EC.

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Systems Components

The major components of each system are a 3M Versaflo Headtop with a 3M Breathing Tube and, as standard, a 3M Waist Belt mounted Powered Air Turbo complete with Battery and Filter(s).

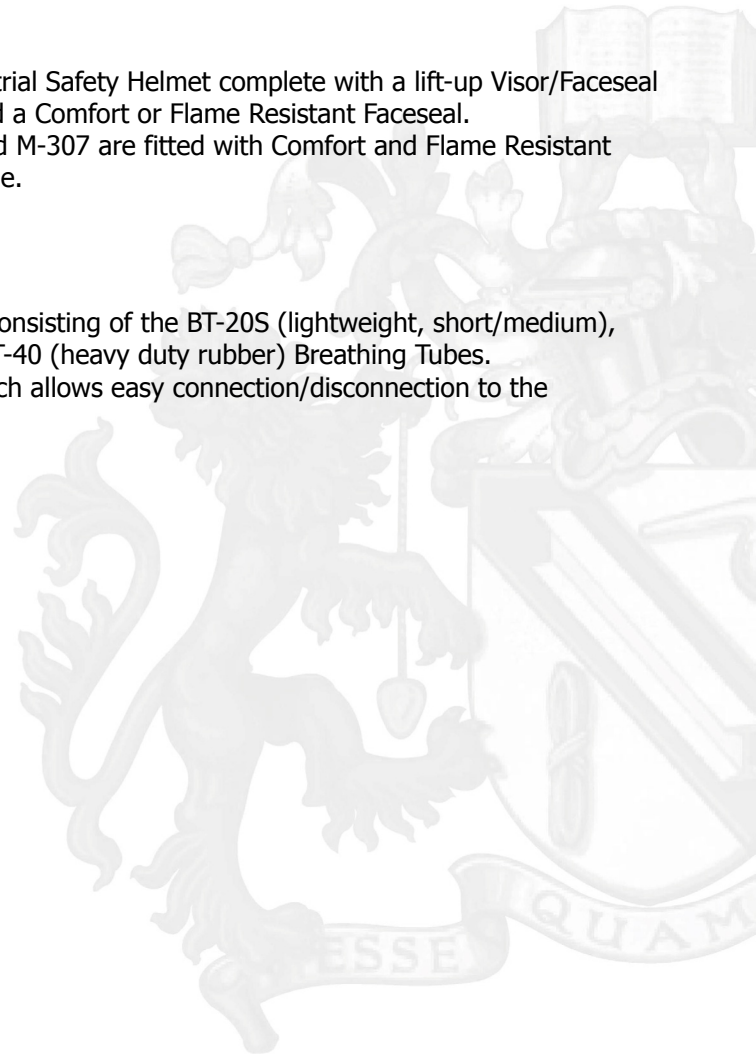
Components common to all systems:

Headtops

The Versaflo M-306 and M-307 Headtops comprise of an Industrial Safety Helmet complete with a lift-up Visor/Faceseal section incorporating a clear coated or clear uncoated Visor and a Comfort or Flame Resistant Faceseal. The models are identical except that as standard the M-306 and M-307 are fitted with Comfort and Flame Resistant Faceseals respectively. In use the Faceseals are interchangeable.

Breathing Tubes

Each system can be fitted with the BT-Series Breathing Tubes consisting of the BT-20S (lightweight, short/medium), BT-20L (lightweight, medium/long), BT-30 (self-adjusting) or BT-40 (heavy duty rubber) Breathing Tubes. The Breathing Tubes incorporate a quick release connector which allows easy connection/disconnection to the Headtops.



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Components of specific systems:

Systems incorporating a Jupiter Turbo Unit	
Batteries	
Description	Part No.
4 hour (IS)	007-00-62
4 hour	007-00-63
8 hour	007-00-64
Filters	
P R	450-00-25
A2P R	453-00-25
A1B1E1P R	456-18-25
K1P R	453-16-25
A2B1E1K1P R	453-09-25
Belt and Braces	
Belt	BLT-12
Braces	TR-329/ 022-25-10

Systems incorporating a TR-302E Turbo Unit	
Batteries	
Description	Part No.
Standard Economy	TR-330
High Capacity	TR-332
Filters	
P R	TR-3712E
P R plus nuisance level Organic Vapour	TR-3802E
P R plus nuisance level Acid Gas (HF 10xTLV)	TR-3822E
Belts, Braces and Backpack	
Standard Belt	TR-325
Leather Belt	TR-326
Easy Clean Belt	TR-327
Backpack	BPK-01
Braces	TR-329/ 022-25-10

Systems incorporating a TR-602E Turbo Unit	
Batteries	
Description	Part No.
Standard Economy	TR-630
High Capacity	TR-632
Filters	
P R	TR-6710E
A1P R	TR-6110E
A1B1E1P R	TR-6130E
A2P R	TR-6310E
P R plus nuisance level Organic Vapour and Acid Gas	TR-6820E
Belts, Braces and Backpack	
High Durability Belt	TR-626
Easy Clean Belt	TR-627
Backpack	BPK-01
Braces	TR-329/ 022-25-10

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Packaged variants

In addition to the products referenced on this Certificate the standard industrial products may also be sold as market specific packaged variants. Such variants will be differentiated and the Technical File(s) will be updated with the appropriate information.

Kits and packouts

The products referenced on this Certificate may also be combined with other 3M products into a kit or packout. There will be no change to the product but the User Information may vary, in such instances the applicable Technical File(s) will be updated with the appropriate information.

Certificate Administration Details

Technical File References:

System Component	Technical File
3M Versaflo M-306/M-307 Helmets.	TF0214.
3M BT-20S/BT-20L, BT-30 & BT-40 Breathing Tubes.	TF0137.
3M Jupiter Filters.	TF0200.
3M Jupiter Powered Air Turbo.	TF0210.
3M Versaflo TR-302E Powered Air Turbo & Filters.	TF0211.
3M Versaflo TR-602E Powered Air Turbo.	TF0405.
3M Versaflo TR-600 Filters.	TF0429.

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Certificate Amendment Record and internal BSI Review related to this Certificate:

Issue date	Comments	BSI Review No.
22 September 2010	First issue, model 3M Versaflo M-306/M-307 Faceshield with 3M Versaflo TR-302E and Jupiter Powered Air Turbo systems.	0086:7461144
24 February 2012	Addition of Dustmaster Powered Air Turbo and associated items, Addition of M-925 visor and change of classification of M-927 visor.	0086:7795555
1 April 2015	Deletion of Dustmaster systems, Dustmaster Turbo no longer manufactured. Addition of the 3M Versaflo TR-602E systems and TR-600 filters. Article 11B Certificate reference changed to that of the 'multi-site' Certificate.	0086:8197705
Latest Issue	Addition of filters TR-6130E, TR-6310E and TR-6820E for the 3M Versaflo TR-602E systems.	0086:8411247

Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall processes utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate is also dependent on the maintenance of the EC quality of production by monitoring system, PPE Article 11B, as referenced on BSI issued Certificate CE 595701.

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